

# DM640

## Floor-standing loudspeaker system

### Product Summary

- The 600 series takes its place in a distinguished family tree that includes the world renowned Matrix 801 and the Matrix 802. Something of this superb pedigree was bound to rub off. In the same way that a luxury car benefits from racing technology, a 600 series loudspeaker speaker system brings with it the pleasure of acquiring the worlds leading acoustic expertise with inherent good value that will be music to your ears.
- The DM640 delivers unexpected power from this moderately sized speaker. Its 59-litre enclosure accommodates two 8in low frequency units, which utilise 56 litres of volume. The bass performance is further enhanced by the use of heavier Cobex cones in the low-frequency drivers, delivering in the process a lower fundamental resonance frequency.
- Unique to the DM640 is a separate, acoustically isolated 160mm midrange drive unit mounted in its own sub-enclosure. By employing the B&W innovation of Kevlar for the cone material and relieving the unit of the need to reproduce high-excursion bass frequencies.

### Technical highlights

- An integral feature is magnetic fluid cooling which combats compression by reducing the temperature of the delicate voice coil in the tweeter at high frequencies.
- The practice of flush-mounting units into stylised moulded baffles has been implemented in the 600 Series. This, together with the bevelling of baffle edges, helps to fight diffraction and produce a cleaner sound. The front polymer compound baffles and the high density fibreboard sub-baffles combine to bolster the structure, and reduce radiation from mechanical cabinet vibration. This is further improved by internal bracing of the cabinet walls.
- The proven provision of being able to bi-wire or bi-amplify the system is present. Two sets of top quality, gold plated terminals are present to enable individual inputs for the high and low frequency units.



<b>Description</b>	3 way 4th-order variable port, bass reflex digital monitor system with bi-wiring	31mm high temperature voice coil on Kapton® former
<b>Drive Units</b>	1 x 26mm high frequency with metal dome, high-temperature voice coil magnetic fluid cooling	<b>Frequency Response</b> 46Hz – 20kHz ± 2dB on reference axis
	1 x 160mm midrange with rigid die-cast chassis, Kevlar® diaphragm and 31mm high temperature voice coil on Kapton® former	<b>Sensitivity</b> 91dB spl(2.83V 1m)
	2 x 200mm bass/midrange with rigid die-cast chassis, Cobex diaphragm and	<b>Nominal Impedance</b> 4 ohms
		<b>Power Handling</b> 25W – 150W into 8 ohms on unclipped programme
		<b>Dimensions</b> Height: 965mm Width: 236mm
		Depth: 407mm
		<b>Finish</b> Simulated veneers of walnut or zelda



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